# PATENT COOPERATION TREATY

# Translation

# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P04-70		FOR FURTHER ACTION	ON	See Form PCT/IPEA/416	<b>i</b>			
International application No.		International filing date (da	y/month/year)	Priority date (day/month/	year)			
PCT/JP2004/008833		17.06.2004		18.06.2003				
Applicant		n (IPC) or nati	onal classification and IPC					
GUNZ	ZE LIMITED	···		<del></del>				
1.	-		minary examination report, ne applicant according to Art	•	International Preliminary I	Examining Authority		
2.	This REPORT consists	of a total of	6	sheets, includin	g this cover sheet.			
3.	This report is also acco	mpanied by A	NNEXES, comprising:			1		
	a. (sent to the	applicant and	to the International Bureau	a total of 2	sl	heets, as follows:		
	sheets		ption, claims and/or drawing ectifications authorized by th			-		
			sede earlier sheets, but which e international application a					
		International	Bureau only) a total of (indi	cate type and numbe	er of electronic carrier(s))	į		
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4.			ing to the following items:					
	Box No. I	Basis of th						
	Box No. II	Priority						
	Box No. III	Non-establ	ishment of opinion with rega	ard to novelty, inven	tive step and industrial app	licability		
	Box No. IV	Lack of un	ity of invention					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI	Certain do	cuments cited					
	Box No. VII	Certain de	fects in the international appl	ication				
	Box No. VIII Certain observations on the international application							
Date of	submission of the deman	nd	Dat	e of completion of the	his report			
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Name ar	nd mailing address of the	e IPEA/JP	Aut	horized officer				
Facsimil	le No		Tel	enhane Na				

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/008833

Box	No. I	Basis of the report	, ·,	
1.		to the language, this report is based on the internation der this item.	nal application in the language in	which it was filed, unless otherwise
		eport is based on translations from the original langua is the language of a translation furnished for the purp		· ,
		international search (Rule 12.3 and 23.1(b))		
		publication of the international application (Rule 12.4)	)	V-1
1		international preliminary examination (Rule 55.2 and/	or 55.3)	
2.	receiving O	I to the elements of the international application, this iffice in response to an invitation under Article 14 ar : ternational application as originally filed/furnished	report is based on (replacement s e referred to in this report as "o	heets which have been furnished to the riginally filed" and are not annexed to
	the de	escription:		
	pages	1-18		as originally filed/furnished
	pages	*	received by this Authority on	
	pages			
	the cl	aims:		
	nos.	4,6,7,8,11,12		as originally filed/furnished
	nos.*			r with any statement) under Article 19
	nos.*			- · · · · · · · · · · · · · · · · · · ·
	nos.*			
	the d	rawings:	,	
	sheet	, v		as originally filed/furnished
	sheet		received by this Authority on	us originally incornationed
	sheet			
1		uence listing and/or any related table(s) – see Supplen	nental Box Relating to Sequence I	asting.
3.	The a	amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos. 2		
	님	the sequence listing (specify):		
	_ LJ	any table(s) related to sequence listing (specify):	**************************************	
4.		report has been established as if (some of) the amen have been considered to go beyond the disclosure as f		
	ᆜ	the description, pages	<del></del>	
	Ц	the claims, nos.		····
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
	If item 4 a	pplies, some or all of those sheets may be marked "suj	perseded."	

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Вох	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement					
	Novelty (N)	Claims 1, 3-12	YES			
		Claims	_ NO			
	Inventive step (IS)	Claims 1, 3-12	YES			
		Claims				
	Industrial applicability (IA)	Claims 1, 3-12	_ YES			
		Claims	210			
2.	Citations and explanations (Rule 7	0.7)				
	Document 1: JP	4-185322 A (Gunze Ltd.), 02 July 1992,				
		aims; page 4, lower left column, lines 17				
		20; and examples				
	Document 2: JP	5-254063 A (Gunze Ltd.), 05 October 1993,				
	c	aims, paragraphs [0025] and [0037], and				
	ex	camples				
	Document 3: JP	6-345920 A (The Nippon Synthetic Chemical				
	Iı	ndustry Co., Ltd.), 20 December 1994,				
	eı	ntire text				
	Document 4: JP	6-345919 A (The Nippon Synthetic Chemical				
	Iı	ndustry Co., Ltd.), 20 December 1994,				
	e	ntire text				
	Document 5: JP	11-199741 A (The Nippon Synthetic				
	CI	nemical Industry Co., Ltd.), 27 July 1999,				
	e	ntire text				
	Document 6: JP	2002-248721 A (Mitsubishi Engineering				
	P	lastics Corp.), 03 September 2002, claims				
		nd paragraphs [0019] to [0021]				
		2000-1592 A (The Nippon Synthetic				
		hemical Industry Co., Ltd.), 07 January				
		000, entire text				
		2001-114966 A (Kuraray Co., Ltd.), 24				
	A	pril 2001, entire text				

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Document 9: JP 2002-172742 A (Unitika Ltd.), 18 June 2002, entire text

Document 10: WO 2000/056548 A (Gunze Ltd.), 28 September 2000, entire text

The inventions set forth in claims 1, 4, 5, 9 and 10 do not involve an inventive step in the light of documents 1 to 4 and document 5 cited in the international search report.

Documents 1 to 4 disclose multilayer films that can be used in the packaging for retort food products, said multilayer films having a layered structure that comprises a polyamide layer, a saponified ethylene-vinyl alcohol copolymer (EVOH) layer and a polyamide layer, in that order. Furthermore, documents 3 and 4 disclose configurations wherein the EVOH layer is configured from a resin composition that comprises an EVOH and a polyamide resin.

However, documents 1 to 4 do not disclose a configuration wherein the EVOH layer comprises a polyamide resin, an alcohol compound and an EVOH.

Meanwhile, document 5 discloses a resin composition that comprises an EVOH as the main component, which can be obtained by melt blending a polyamide resin with an alcohol compound and then adding an EVOH thereto; indicates that the abovementioned resin composition exhibits superior transparency characteristics and superior retort resistance characteristics, and thus is useful as a packaging material for packaging food products that are subjected to retort sterilization; discloses the feature of configuring a layered object that comprises a layer of the abovementioned resin

citations and explanations supporting such statement

Box No. V

composition; and presents polyamides, copolymer polyamides and the like as examples of the films upon which the abovementioned resin composition may be laminated.

Therefore, it would have been easy for a person skilled in the art to conceive of employing the EVOH resin composition that is disclosed in document 5 as the EVOH layer that is disclosed in documents 1 to 4. Furthermore, the effects that result therefrom, e.g. the heat resistance characteristics, the water resistance characteristics and the like, could have been predicted in the light of the disclosures of document 5.

The invention set forth in claim 3 does not involve an inventive step in the light of documents 1 to 5 and documents 7 and 8 cited in the international search report.

Resin compositions that are configured by adding a lamellar inorganic compound which swells upon contact with water (corresponding to the "absorbent inorganic substance") to an EVOH and layered films that comprise a layer of the abovementioned resin composition are well known, as disclosed in documents 7 and 8.

The invention set forth in claims 6 to 8 does not involve an inventive step in the light of documents 1 to 4 and document 6 cited in the international search report.

Document 6 discloses a layered film that comprises a polyamide resin layer, wherein the abovementioned polyamide resin layer includes a hindered phenol-based antioxidation agent; therefore, it would have been easy for a person skilled in the art to conceive of including the abovementioned antioxidation agent in the polyamide

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

layer of the inventions that are disclosed in documents 1 to 4.

The invention set forth in claim 11 does not involve an inventive step in the light of documents 1 to 4 and document 9 cited in the international search report.

Document 9 discloses a multilayer film that is configured from an EVOH layer, an aliphatic polyamide layer, and a layer that comprises xylylene-based polyamide as the primary component (corresponding to the "aromatic polyamide layer"). Therefore, it would have been easy for a person skilled in the art to conceive of further providing an aromatic polyamide layer to the multilayer films that are disclosed in documents 1 to 4.

The invention set forth in claim 12 does not involve an inventive step in the light of documents 1 to 6.